

# Enable Real-Time Monitoring On The Go Through Desktop Application Modernisation

Case Study

## Overview

The client had set forth a new innovative approach towards the unification of the Network Management Systems of the Telecom assets by devising a cloud-based Network Management System called NmsAlert. A network-wide implementation of NmsAlert will empower the decision-makers in knowing the health of the network's telecom network from anywhere in a matter of seconds which will help them in directing the efforts of their teams with unprecedented efficiency.



- Structuring the ad-hoc process of the complicated and decade-old system as per the current needs
- Creating seamless coordination and syncing of data to integrate with different systems
- Handling mismanaged and un-normalized legacy databases to migrate in a web-based format
- Ensuring minimum front-end changes to provide a similar experience of existing systems in a web environment
- Avoid delays by sending alarms and insights to the supervisor via SMS and app notifications



Java



Spring  
Framework,  
REST APIs



Amazon  
Web  
Services



Android



HTML5,  
XML



MySQL  
Database



- Designed web application architecture, database architecture, and technical processes and converted the existing desktop-based application to a new generation cloud-based product
- Developed modernization techniques for each functionality and built web-front to match with desktop GUI
- Graphically enhanced Events dashboard so that user could access latest alarms at a glance
- Fully responsive, giving users the flexibility to access records while on the move
- Stronger security & scalability and optimised for higher performance



- A centralised view of alarm events for telecom assets such as STMs, PDMuxes, and Network routers across infrastructure
- 100% real-time visibility into the health of the telecom assets
- 60% Reduction in Alarm Ticket Resolution Time
- Higher efficiency and increased reliability due to end-to-end tracking of events via the Cloud platform
- The client now knows what's happening at all levels to make better decisions accordingly by using the system's real-time status report capability

### About 3Point3 Labs

3Point3 Automation Labs have a team of veteran engineers, who all have a strong background in electronics, enterprise software and industrialization. We help customers in operational environments achieve improved business outcomes in the fields of Manufacturing, logistics, Healthcare and retail by providing them solutions based on asset tracking, condition sensing, indoor navigation, predictive analysis, staff safety and more. Our expertise helps our clients solve their business and operational problems and gain maximum benefits leveraging the latest innovations in their domains.

The core of our technology is AI and Cognitive Computing, Internet of Things (IoT), Data Analytics, Cloud and world-class hardware modules driven by our embedded software.

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